Photographic Science and Engineering

Volume 25, Numbers 1–6

January/February (1) 1–44
March/April (2) 45–88
May/June (3) 89–120
July/August (4) 121–168
September/October (5) 168–218
November/December (6) 219–272

TITLE INDEX

Breakdown of Sodium Thiosulfate on Evaporated Silver Bromide Layers Studied by Electron Microscopy
J. A. Aznarez, 219

Chemical and Photographic Properties of Symmetrical Trinuclear Cyanine Dyes
R. Steiger and J. F. Reber, 127

Compositional and Distributional Analysis of Silver Halide Materials by Secondary Ion Mass Spectrometry
B. K. Furman, G. H. Morrison, V. I. Saunders, and Y. T. Tan, 121

Delayed Formation of Latent Image Specks in Vacuum
K. Kuge, S. Fujiwara, and H. Hada, 197

Development Acceleration by Ruthenium Complexes
H. J. Price, 29

Dichromated Gelatin and the Mechanism of Hologram Formation
S. Sjölinder, 112

Dye Sensitization of a Photoreceptor Consisting of PVK and ZnO for Electrophotography
N. C. Khe, I. Shimizu, and E. Inoue, 254

Electrochemical Model Experiments Concerning the Influence of Iodide and Quinone upon Physical Development of Silver-Thiocyanate and Silver-Thiosulfate Complexes
W. Jaenicke and H. Kobayashi, 152

Electrophoretic Display: Materials as Related to Performance
M. D. Croucher, J. Harbour, M. Hopper, and M. L. Hair, 80

Electrophotographic Behavior of ZnO Sensitized by Two Dyes
K. Kiyota, T. Yoshimura, and M. Tanaka, 76

Epitaxial AgCl/AgI Photographic Emulsions
J. E. Maskasky, 96

ESR Investigations on the Triplet States of Cyanine Dyes and the Structure of Their Aggregates
H. Schmidt, H. D. Rödder, and U. Dietzel, 21

Evaluation of Spectral Sensitivities
N. Ohta, 101

Exposure Fluctuations in Model Photographic Emulsions II. Statistics Due to Intensifying Screens
J. H. B. Kemperman and E. A. Trabka, 108

Formation, Nature, and Action of Sensitivity Centers and Latent Image Specks. Part I: Chemical Sensitization—a Review
E. Moisar, 45

Gray Scale Compression in Reprography
B. Dom, 216

Influence of Oxygen on Photoreduction of 2-methyl-1,4-naphthoquinone in Polymer Matrix
K. Tanaka and H. Kokado, 157

Ionic Thermocurrents in Silver Bromide Emulsions. Preliminary Observations and Results
A. R. Vaala and J. M. Hodes, 240

Mathematical Modeling of Chemical Development
D. D. F. Shiao and E. L. Dedio, 145

Microwave Cavity Calculations for Photoconductivity Measurements
R. J. Deri and J. P. Spoonhower, 89

Model for the Chemical Sensitization of Silver Halide Photographic Emulsions with Sulfur and Gold
D. A. Pitt, M. L. Rachu, and M. R. V. Sahyun, 57

Observation of Latent Image Formation by Intermittent Dember Effect Measurement
H. Hada, M. Kawasaki, and T. Yoshida, 201

Observations on the Orthorhombic PbO Spectral Sensitization of AgCl
J. E. Maskasky and M. Haley, 225

On the Mechanism of the Photographic Action of Palladium(II) Salts on Silver Halide Emulsions. I. Influence of Palladium(II) Salts on Gold-Sensitized Emulsions
L. de Brabandere and P. Faelens, 63

Optical Absorption Studies of the Growth of Microcrystals in Nascent Suspensions. (IV): Optical Absorption of Mixed Silver Halide Microcrystals in Nascent Hydrosols
T. Tanaka and T. Matsubara, 1

Optimizing the Entire Photographic System for Information Capture
G. R. Bird and M. D. Cox, 246

Ostwald Ripening Rates of Silver Iodide Dispersions. The Effect of pAg
M. D. Donohue and A. H. Herz, 92

Photocharge Effects in Dye Sensitized Ag[Br,I] Emulsions at Millisecond Range Exposures
K. C. Chang, F. P. Chen, and B. Levy, 138

Photoconductive Process for Dye-sensitized CdS
H. Nakatsui and Y. Hishiki, 258

Photography of Ferrioxalate Salt and Analytical Metal Indicator
K. Tanaka and K. Harada, 32

Photo-induced Memory Effect of an Organic Photoconductor. II: Electrical Properties
Y. Nishio and E. Inoue, 35

Photoinjection of Charge Carriers from Trigonal Selenium-Binder Generation Layer into Organic Carrier Transport Layers
K. Takeda and M. Nagata, 268

Sensitization of a Photoreceptor Consisting of PVK and ZnO for Electrophotography
N. C. Khe, I. Shimizu, and E. Inoue, 39

Short Communications
Sinusoidal Vibration Degradation Effect on Picture Quality
G. S. Sandhu, 87
Simplified Algorithm of Color Matching in Subtractive Color Photography
N. Ohta, 161
Studies on Properties and Interaction of Stabilizers and Antifoggants with Silver Bromide in Relation to Their Sensitizing Effects
T. Tani, 230
Study of Spectral Sensitization Processes by Means of Photoacoustic Spectroscopy
T. Iwasaki, S. Oda, T. Sawada, and K. Honda, 6
Technique for the Characterization of Size Distribution During Ostwald Ripening of Silver Halide Crystals
T. W. King, S. M. Shor, and D. A. Pitt, 70
The Design of an Organic Photoreceptor with Charge-Acceptance Memory—Poly *N*-Vinylcarbazole and Diazonium Salt System
J. Hanna and E. Inoue, 209
The Formation of the Latent Image in Photographic Emulsion Grains
J. W. Mitchell, 170
The Paradox of Ag_2 Centers on AgBr: Reduction Sensitization versus Photolysis
J. F. Hamilton and R. C. Baetzold, 189
The Reversible Halogenation of Cyanine Dyes
R. Steiger, 10
Trigonal Selenium-Binder Photoconductive Layer Formed by *in Situ* Reduction and Crystallization and Its Photoconductive Behavior
K. Takeda, 262

AUTHOR INDEX

Aznarez, J. A.
Breakdown of Sodium Thiosulfate on Evaporated Silver Bromide Layers Studied by Electron Microscopy, 219
Baetzold, R. C. *See* Hamilton, J. F., 189
Bird, G. R. and M. D. Cox
Optimizing the Entire Photographic System for Information Capture, 246
Chang, K. C., F. P. Chen, and B. Levy
Photocharge Effects in Dye Sensitized Ag[Br,I] Emulsions at Millisecond Range Exposures, 138
Chen, C. F. See Chang, K. C., et al., 138
Cox, M. D. *See* Bird, G. R., 246
Croucher, M. D., J. Harbour, M. Hopper, and M. L. Hair
Electrophoretic Display: Materials as Related to Performance, 80
de Brabandere, L. and P. Faelens
On the Mechanism of the Photograph Action of Palladium (II) Salts on Silver Halide Emulsions. Part 1—Influence of Palladium (II) Salts on Gold-Sensitized Emulsions, 63
Dedio, E. L. *See* Shiao, D. D. F., 145
Deri, R. J. and J. P. Spoonhower
Microwave Cavity Calculations for Photoconductivity Measurements, 89
Dietzel, U. *See* Schmidt, H., et al., 21
Dom, B.
Gray Scale Compression in Reprography, 216
Donohue, M. D. and A. H. Herz
Ostwald Ripening Rates of Silver Iodide Dispersions, 92
Faelens, P. *See* de Brabandere, L., 63
Fujiwara, S. *See* Kuge, K., et al., 197
Furman, B. K., G. H. Morrison, V. I. Saunders, and Y. T. Tan
Compositional and Distributional Analysis of Silver Halide Materials by Secondary Ion Mass Spectrometry, 121
Hada, H., M. Kawasaki, and T. Yoshida
Observation of Latent Image Formation by Intermittent Dember Effect Measurement, 201
Hada, H. *See* Kuge, K., et al., 197
Hair, M. L. *See* Croucher, M. D., et al., 80
Haley, M. *See* Maskasky, J. E., 225
Hamilton, J. F. and R. C. Baetzold
The Paradox of Ag_2 Centers on AgBr: Reduction Sensitization versus Photolysis, 189
Hanna, J. and E. Inoue
The Design of an Organic Photoreceptor with Charge-Acceptance Memory—Poly *N*-Vinylcarbazole and Diazonium Salt System, 209
Harada, K. *See* Tanaka, K., 32
Harbour, J. *See* Croucher, M. D., et al., 80
Herz, A. H. *See* Donohue, M. D., 92
Hishiki, Y. *See* Nakatsui, H., 258
Hodes, J. M. *See* Vaala, A. R., 240
Honda, K. *See* Iwasaki, T., et al., 6
Hopper, M. *See* Croucher, M. D., et al., 80
Hoyen, H. A., Jr.
Introduction to Papers from the International Symposium on Fundamentals of Latent-Image Formation and Photosensitive Interfaces, 169
Inoue, E. *See* Hanna, J., 209
See Khe, N. C., et al., 39
See Khe, N. C., et al., 254
See Nishio, Y., 35
Iwasaki, T., S. Oda, T. Sawada, and K. Honda
Study of Spectral Sensitization Processes by Means of Photoacoustic Spectroscopy, 6
Jaenicke, W. and Kobayashi, H.
Electrochemical Model Experiments Concerning the Influence of Iodide and Quinone upon Physical Development of Silver Thiocyanate and Silver Thiosulfate Complexes, 152
Kawasaki, M. *See* Hada, H., et al., 201
Kemperman, J. H. B. and E. A. Trabka
Exposure Fluctuations in Model Photographic Emulsions II. Statistics Due to Itensifying Screens, 108
Khe, N. C., I. Shimizu, and E. Inoue
Dye Sensitization of a Photoreceptor Consisting of PVK and ZnO for Electrophotography, 254
Sensitization of a Photoreceptor Consisting of PVK and ZnO for Electrophotography, 39
King, T. W., S. M. Shor, and D. A. Pitt
Technique for the Characterization of Size Distribution During Ostwald Ripening of Silver Halide Crystals, 70
Kiyota, K., T. Yoshimura, and M. Tanaka
Electrophotographic Behavior of ZnO Sensitized by Two Dyes, 76
Kobayashi, H. *See* Jaenicke, W., 152
Kuge, K., S. Fujiwara, and H. Hada
Delayed Formation of Latent Image Specks in Vacuum, 197
Kokado, H. *See* Tanaka, K., 157
Levy, B. *See* Chang, K. C., et al., 138
Maskasky, J. E. and M. Haley
Observations on the Orthorhombic PbO Spectral Sensitization of AgCl, 225
Maskasky, J. E.
Epitaxial AgCl/AgI Photographic Emulsions, 96
Matsubara, T. *See* Tanaka, T., 1
Mitchell, J. W.
The Formation of the Latent Image in Photographic Emulsion Grains, 170
Moisar, E.
Formation, Nature, and Action of Sensitivity Centers and Latent Image Specks, 45
Morrison, G. H. *See* Furman, B. K., et al., 121
Nagata, M. *See* Takeda, K., 268
Nakatsui, H. and Y. Hishiki
Photoconductive Process for Dye-sensitized CdS, 258
Nishio, Y. and E. Inoue
Photo-Induced Memory Effect of an Organic Photoconductor. II: Electrical Properties, 35
Oda, S. *See* Iwasaki, T., et al., 6
Ohta, N.
Evaluation of Spectral Sensitivities, 101
Simplified Algorithm of Color Matching in Subtractive Color Photography, 161
Rachu, M. L. *See* Pitt, D. A., et al., 57
Reber, J. F. *See* Steiger, R., 127
Rödder, H. D. *See* Schmidt, H., et al., 21
Sahyun, M. R. V. *See* Pitt, D. A., et al., 57
Sandhu, G. S.
Short Communication—Sinusoidal Vibration Degradation Effect on Picture Quality, 87
Saunders, V. I. *See* Furman, B. K., et al., 121
Sawada, T. *See* Iwasaki, T., et al., 6
Schmidt, H., H. D. Rödder, and U. Dietzel
ESR Investigations on the Triplet States of Cyanine Dyes and the Structure of Their Aggregates, 21
Shiao, D. D. F. and E. L. Dedio
Mathematical Modeling of Chemical Development, 145
Shimizu, I. *See* Khe, N. C., et al., 39
Shimizu, I. *See* Khe, N. C., et al., 254

Shor, S. M. *See* King, T. W., 70
Sjölinder, S.
Dichromated Gelatin and the Mechanism of Hologram Formation, 112
Spoonhower, J. P. *See* Deri, R. J., 89
Steiger, R.
The Reversible Halogenation of Cyanine Dyes, 10
Steiger, R. and J. F. Reber
Chemical and Photographic Properties of Symmetrical Trinuclear Cyanine Dyes, 127
Takeda, K.
Trigonal Selenium-binder Photoconductive Layer Formed by *in Situ* Reduction and Crystallization and Its Photoconductive Behavior, 262
Takeda, K. and M. Nagata
Photoinjection of Charge Carriers from Trigonal Selenium-Binder Generation Layer into Organic Carrier Transport Layers, 268
Tan, Y. T. *See* Furman, B. K., et al., 121
Tanaka, K. and K. Harada
Photography of Ferrioxalate Salt and Analytical Metal Indicator, 32
Tanaka, K. and H. Kokado
Influence of Oxygen on Photoreduction of 2-methyl-1,4-naphthoquinone in Polymer Matrix, 157
Tanaka, M. *See* Kiyota, K., 76
Tanaka, T. and T. Matsubara
Optical Absorption Studies of the Growth of Microcrystals in Nascent Suspensions. (IV): Optical Absorption of Mixed Silver Halide Microcrystals in Nascent Hydrosols, 1
Tani, T.
Studies on Properties and Interaction of Stabilizers and Antifoggants with Silver Bromide in Relation to Their Sensitizing Effects, 230
Trabka, E. A. *See* Kemperman, J. H. B., 108
Pitt, D. A. *See* King, S. W., 70
Pitt, D. M., M. L. Rachu, and M. R. V. Sahyun
Model for the Chemical Sensitization of Silver Halide Photographic Emulsions with Sulfur and Gold, 57
Price, H. J.
Development Acceleration by Ruthenium Complexes, 29
Vaala, A. R. and J. M. Hodes
Ionic thermocurrents in Silver Bromide Emulsions. Preliminary Observations and Results, 240
Yoshida, T. *See* Hada, H., et al., 201
Yoshimura, T. *See* Kiyota, K., 76